

IN THE CLAIMS:

Please amend claims 5 and 9 to read as listed below. A complete listing of all claims is shown as follows. The status of each claim is listed in parentheses after the claim number. Additions to the claim language are underlined, and deletions are marked with strikethrough. All claim amendments have been bolded for convenience of reference.

1-4. (Previously canceled)

5. (Presently amended) A process for removing unreacted ammonia from an effluent of a catalyst bed used in ammoxidation of hydrocarbons, comprising the steps of:

- (a) providing a fluidized bed reactor, said reactor comprising:
  - (1) a fluidized catalyst bed for reacting ammonia and hydrocarbons therein;
  - (2) a dilute phase of the catalyst bed disposed above the fluidized catalyst bed;
  - (3) a set of internals introduced into space above the fluidized catalyst bed layer and disposed at least partially within the dilute phase of the fluidized catalyst bed;
  - (4) an inlet of a first-stage cyclone separator disposed above the set of internals, wherein the fluidized bed reactor does not comprise a fixed catalyst bed; and
- (b) removing the unreacted ammonia from the effluent of the fluidized catalyst bed by passing the effluent through the set of internals, wherein the ammonia and hydrocarbons present in the effluent contact the dilute phase of the catalyst bed and react herein.

6. (Original) The process according to claim 5, wherein the set of internals are selected from the group consisting of packing, baffles, screens and combinations thereof.

7. (Original) The process according to claim 5, wherein a bottom side of the set of internals is at a depth within the catalyst bed of not greater than 20% of the total height of the catalyst bed.

8. (Original) The process according to claim 5, wherein the hydrocarbons are of a compound selected from the group consisting of propane, propylene, isobutene, xylene and combinations thereof.

9. (Amended) A process for removing unreacted ammonia from an effluent of a catalyst bed used in ammoxidation of hydrocarbons, comprising the steps of:

(a) providing a fluidized bed reactor, said reactor comprising:

(1) a fluidized catalyst bed for reacting ammonia and hydrocarbons therein;

(2) a dilute phase of the catalyst bed disposed above the fluidized catalyst bed;

(3) a set of internals introduced into space above the fluidized catalyst bed layer and disposed at least partially within the dilute phase of the fluidized catalyst bed, wherein the fluidized bed reactor does not comprise a fixed catalyst bed; and

(b) removing the unreacted ammonia from the effluent of the fluidized catalyst bed by passing the effluent through the set of internals, wherein the ammonia and

hydrocarbons present in the effluent contact the dilute phase of the fluidized catalyst bed and react therein.